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## SEQUENCE LISTING

<110> The University of Texas System Board of Regents

<120> Regulatable, Catalytically Active Nucleic Acids

<130> 119927-1050

<140> 09/883,119

<141> 2001-06-14

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<151> 2000-06-15

<160> 44

<170> PatentIn version 3.1

<210> 1

<211> 129

<212> DNA

<213> Artificial Sequence

<220>

<223> Engineered Aptazyme

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aacttggttaa agcaagttgt ctatcgtttc gagtcacttg accctactcc ccaaagggat  
120

agtcggttag

129

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<211> 131

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<213> Artificial Sequence

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<223> Engineered Aptazyme

<400> 2

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120

gaattatccct t  
131

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<211> 75  
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<210>  
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<210>  
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80

cagataaggt cgtaatatc accccggaa  
89

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<220>  
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 <223> n=a,c,t, or g

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 120  
 gactatccct t  
 131

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<223> Engineered Sequence

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<222> (37)..(87)

<223> n=a, t, g, or g

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116

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<223> primer

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<210> 9

<211> 18

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<220>  
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 36

<210> 11  
 <211> 80  
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 <223> competitor sequence

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cuccagacuu gacgaagcuu  
 40

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 <212> DNA  
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cuccagac uugacgaagc uu  
82

<210> 13

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> competitive sequence

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cuccagacuu gacgaagcuu  
80

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<211> 211

<212> DNA

<213> Artificial Sequence

<220>

<223> competitive sequence

<400> 14

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gacaaucagc aaggaaguu acauauaauug uuaaaaccuu cagagacuag acgugaucuu  
110

uuaauagacg ccuugcggcu cuuauuagau aagguauagu ccaaaauugu auguaauac  
180

aaaaugauaa aaaaaaauga aaucuaugg g  
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cuccagacuu gacgaagcuu  
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tt  
 132

<210> 17  
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<220>  
 <223> primer

<400> 17

ttatactagt aatctatcta aacg  
24

4210 18  
4211 24  
4212 DNA  
4213 Artificial Sequence

4220  
4223 primer

4400 18  
cccggaattc tatccagctg catg  
24

4210 19  
4211 94  
4212 DNA  
4213 Artificial Sequence

4220  
4223 oligonucleotide

4400 19  
gactgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga  
40

caatcccggtg cttaaattgct aacgactatc cctt  
44

4210 20  
4211 131  
4212 DNA  
4213 Artificial Sequence

4220  
4223 oligonucleotide

4400 20  
gactgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga  
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caatcccggtg cttaaattata ccagcatcgt cttgatgcc ttggcagata aatgcctaac  
120



gactatccct t  
131

<210> 21  
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aagactatcc ctt  
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<210> 22  
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caatcccggtg ctaaataaac cagcatcgtc ttgatgccct tggcagtaaa tgccctaacga  
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ctatccctt  
129

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caatcccgta taccagcatc gtcttgatgc ccttggcagc taacgactat ccctt  
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<210> 25  
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117

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<223> oligonucleotide

<400> 26

tgagtataag gtgacttata ctagtaatat atctaaacgg ggaacctata taccagcatc  
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gtcttgatgc ccttggcaga gacaatcccg tgcataattg taggactgcc cgggttctac  
120

ataaatgcct aacgactatc cctt  
144

<210> 27

<211> 140

<212> DNA

<213> Artificial Sequence

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<223> oligonucleotide

<400> 27

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cttgatgccc ttggcagaca atcccgtagt aaattgtagg actgcccggg ttctacataa  
120

atgcctaacg actatccctt  
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<210> 28

<211> 107

<212> DNA

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<220>

<223> oligonucleotide

<400> 28

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107

<210> 29  
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atcgtctttga tgcctttggt tgcataaatg cctaacgaat atccctt  
 107

<210> 30  
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<220>  
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caatcccggtg ctaaattagg atatgcttcg gcagaaggat aaatgcctaa cgactatccc  
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tt  
 122

<210> 31  
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caatcccggtg ctaaattgag gatatgcttc ggcagaaggc ataaatgcct aacgactatc

120

ccctt

124

&lt;210&gt; 32

&lt;211&gt; 37

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; primer

&lt;400&gt; 32

gataatacga ctcaactataa tggcattacc gccttgt

37

&lt;210&gt; 33

&lt;211&gt; 26

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; primer

&lt;400&gt; 33

gctctagact tagctacaat atgaac

26

&lt;210&gt; 34

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; substrate

&lt;400&gt; 34

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18

&lt;210&gt; 35

&lt;211&gt; 61

&lt;212&gt; DNA

4213 Artificial Sequence

4220

4223 ribozyme

4220

4221 misc\_feature

4222 (37)..(47)

4223 n=a, c, t, or g

4400 35

cggaagcaag gagagacgtc cttggaggag caagggnnnn nnnnnnngtc ttacagtcag  
c0

t

c1

4210 36

4211 54

4212 DNA

4213 Artificial Sequence

4220

4223 ribozyme

4210

4221 misc\_feature

4222 (14)..(17)

4223 n=a,c,t, or g

4400 36

cagagcatta aggnnnnacg ggtgactctt tagttaggct cccgttagtt tagg  
14

4210 37

4211 55

4212 DNA

4213 Artificial Sequence

4220

4223 ribozyme

4210

4221 misc\_feature

<222> (39)..(43)

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<210> 38

<211> 50

<212> DNA

<213> Artificial Sequence

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<223> ribozyme

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<210> 39

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> ribozyme

<400> 39

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<210> 40

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> ribozyme

<400> 40

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<210> 41  
<211> 50  
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<223> ribozyme

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<223> n=a, c, t, or g

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<210> 42  
<211> 50  
<212> DNA  
<213> Artificial Sequence

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50